

Fig. 1

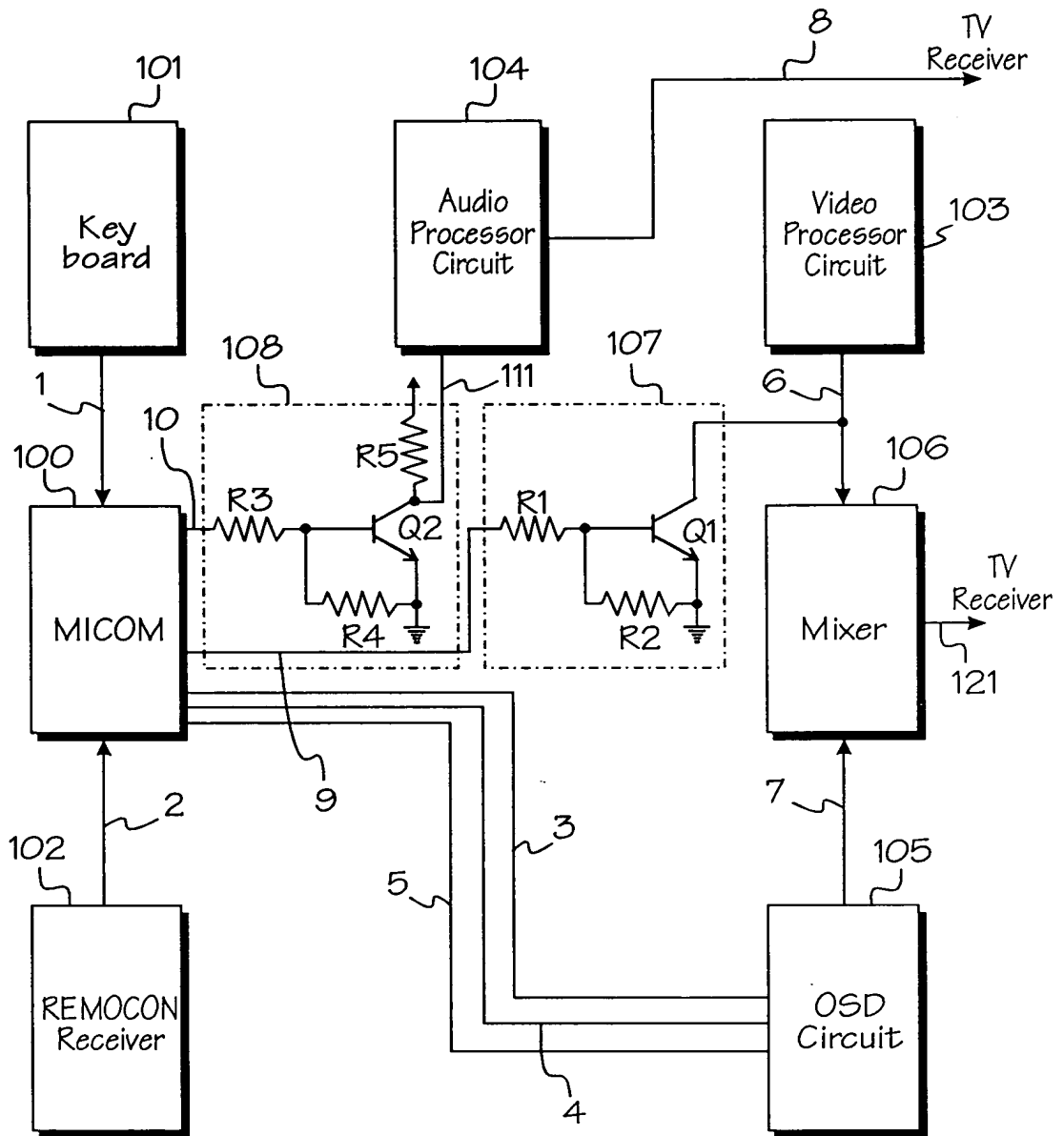
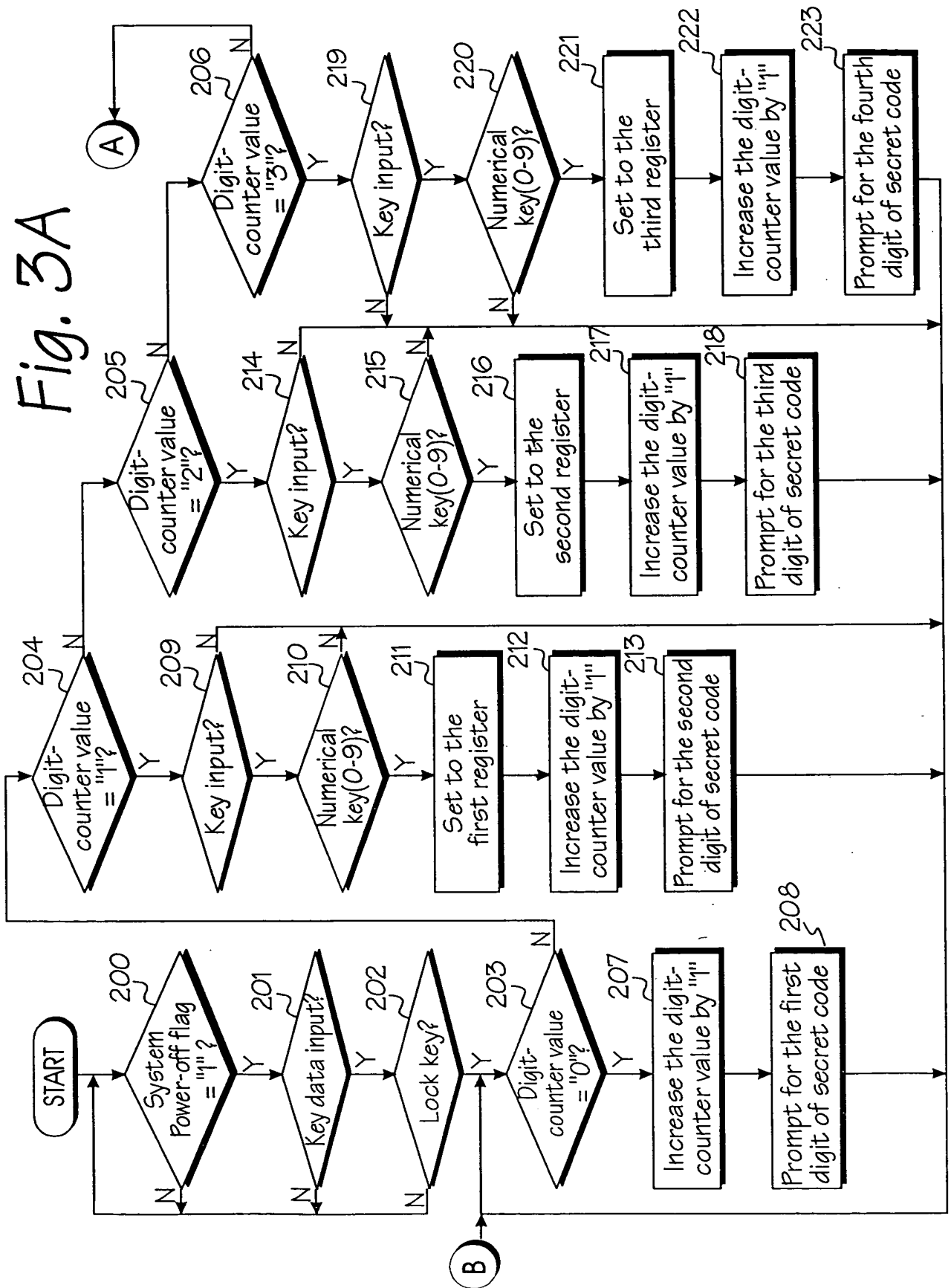


Fig. 2

Fig. 3A



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graph TD
    A((A)) --> 224{Key input?}
    224 -- Y --> 225{Numerical key 0-9?}
    224 -- N --> B((B))
    225 -- Y --> 226[Set to the 4th-digit register]
    225 -- N --> B
    226 --> 227[Check the input secret code]
    227 --> 228{Lock flag = "1"?}
    228 -- Y --> 234{Is the stored secret code identical with the memorized one?}
    228 -- N --> 229[Set the lock flag to "1"]
    229 --> 230[Mute the audio and video signal]
    230 --> 231[Initialize the digit counter]
    231 --> 232[Store the input secret code]
    232 --> 233[Clear the display]
    233 --> END((END))
    234 -- Y --> 237[Reset the lock flag]
    234 -- N --> 235[Initialize the digit counter]
    235 --> 236[Clear the display after error message]
    236 --> B
    237 --> 238[Initialize the digit counter]
    238 --> 239[Release the audio and video mute]
    239 --> 240[Clear the memorized secret code]
    240 --> 241[Clear the display]
    241 --> END

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Fig. 3B

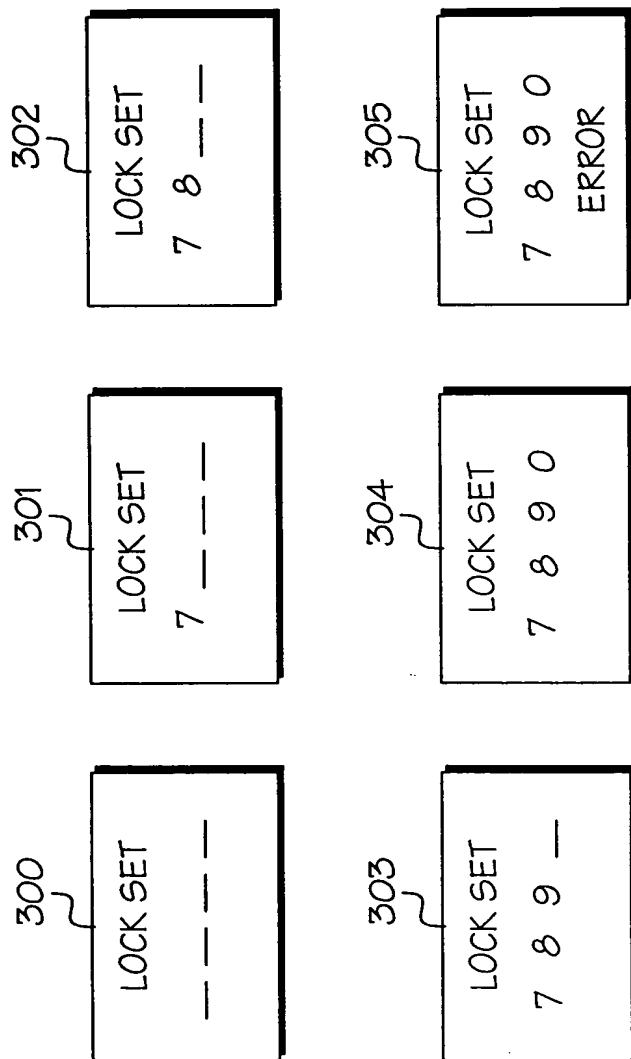


Fig. 4